			Rece	eiving Rep	ort		
· · · · · · · · · · · · · · · · · · ·	Packing Sli Invoice: Receipt:			Dart Release Note A Waybill Attache Shipment Com	P/O:Attached: Yed: Yolete		N/A
	Discrepanci Part Number	Description	antity	QC6 Inspection Vork Order Quantity Received	16 9-89 Quantity Returned	Quantity Short	N/A N/A N/A Comments
. !	Production/A Date Received/Cos nitial	15/1//2	Initials	of receiver (i	f shipment C	DK) Level 1 Location	



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 7/11/2013 PO Print Date 7/11/2013

Page Number 1 of 4

Order From:

CA

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

DART AEROSPACE LTD Ship To: 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 **CANADA**

Contact Name

Vendor Phone

905 669 9444

Buyer

Chantal Lavoie

Customer POID

Ship To Contact

Ship To Phone

Customer Tax # Terms

10127-2607 Net 30

CAD

Currency

	Ship Via: Yours p	ppd		FOB	O+D	Destination-Collec	t	
S	Ship Acct:				4	M	126351	
Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	List Price Disc %	Discounted Unit Price	Extended Price
1	M6061T6B0.375X01.000	6061T6 BAR .375 x 1.00	7/18/2013		36.00			\$30.00
			Yes	d)	f			
	MATERIAL: 6061-T6/T651/T65 BAR AS PER QQ-A-225/8 OR A		7/18/2013			* .		
	4117/4128/4115/4116 OR QQ-A OR AMS 4160 OR ASTM B211	A-200/8 OR AMS-QQ-A-200/8			•	•	A v	`
		9 9						
		. "						
		· -		٠		Li	ne Total:	\$30.00
2	M6061T6B0,500X02,500	6061-T6 Bar .500 x 2.50	7/18/2013		12.00	V		\$34.20 <
-	WOOD TODO, DOLLAR TO		Yes		f			
	SAME AS ABOVE		7/18/2013					,
		8.4				· .		
	*					1.3	ne Total:	\$34.20
	soph						ne roun.	W# 15
	5001					,		

M6061T6B0.500X10.000

6061-T6 Bar .500 x 10.00

7/18/2013 Yes

SAME AS ABOVE

LILVE 11 NEW PO

7/18/2013



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 7/11/2013 PO Print Date 7/11/2013

Page Number 2 of 4

\$429.40

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

	Contact Name Vendor Phone 905 669 Ship To Contact Ship To Phone Ship Via: Yours p			Buyer Customer Customer Terms Currency FOB		Chantal I 10127-26 Net 30 CAD Destinat	× 1000	
							Line Total:	\$134,90
4	M6061T6B0.750X01.000	6061-T6 Bar .750 x 1.00	7/18/2013 Yes		24.00 f			\$41.80
	SAME AS ABOVE	φ - 3):	7/18/2013					
							Line Total:	\$41.80
5	M6061T6B0.750X01.500 SAME AS ABOVE	6061-T6 Bar .750 X 1.50	7/18/2013 Yes 7/18/2013		12.00 f			\$30.40
	···		*	•			Line Total:	\$30.40
6	M6061T6B1.000X04.000	6061-T6 Bar 1.00 x 4.00	7/18/2013 Yes		48.00 f	V		\$429.40
	SAME AS ABOVE	4)	7/18/2013	,		for	12/181	



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 7/11/2013
PO Print Date 7/11/2013

Page Number 3 of 4

\$119.70

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

	Nº .
Contact Name Buyer Chantal Lavoic	
Vendor Phone 905 669 9444 Customer POID	
Customer Tax # 10127-2607	
Ship To Contact Terms Net 30 Currency CAD	
Ship Via: Yours ppd FOB Destination-Collect	
Ship Acet:	
7 M6061T6B1.000X06.000 6061T6 BAR 1.00 X 6.00 7/18/2013 12.00	\$163.40
Yes	
SAME AS ABOVE 7/18/2013	
	•
Line Total:	\$163.40
8 M6061T6B1,000X12.000 6061-T6 Bar 1.00 x 12.00 7/18/2013 12.00	\$321.10
Yes f	
SAME AS ABOVE 7/18/2013	
	1
Line Total:	\$321.10
9 M6061T6B30000X01.500 6061-T6 Bar 3.00 x 1.50 7/18/2013 12.00	\$119.70
Yes f	
SAME AS ABOVE 7/18/2013	



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 7/11/2013 PO Print Date 7/11/2013

Page Number 4 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

905 669 9444

Yours ppd

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms Currency Net 30

EOD

CAD

FOB

Destination-Collect

Ship Acet:

Ship Via:

M6061T6B4.500X4.500

6061-T6 AluminumBar 4.500" X 4.500" 7/18/2013

8.00

\$384.00

SAME AS ABOVE

7/18/2013

No

f

Line Total:

\$384.00

PO Total:

\$1,688.90

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES

Change Nbr:

i

Change Date:

7/11/2013

Z. N

NO



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 11/07/2013 PO Print Date 17/07/2013

Page Number 4 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Ship To Contact

Ship To Phone Ship Via:

Ship Acct:

Vendor Phone

905 669 9444

Buyer **Customer POID** Chantal Lavoie

Yours ppd

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

6061-T6 AluminumBar 4.500" X 4.500"

18/07/2013

8.00

\$384.00

SAME AS ABOVE

M6061T6B4.500X4.500

18/07/2013

No

Line Total:

\$384.00

M6061T6B0.500X12.000

6061-T6 Bar .500 x 12.00

22/07/2013

Yes

22/07/2013

\$134.90

NOTE

Specifications same as line #1.

Line Total:

\$134.90

PO Total:

\$1,823.80

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer. No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES NO

Change Nbr:

Change Date:

17/07/2013



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 11/07/2013 PO Print Date 17/07/2013

Page Number 1 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

905 669 9444

Buyer

Chantal Lavoie

Customer POID Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

	Ship Via: Your Ship Acet:	s ppd		FOB		Destination	-Collect			
Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date		Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	÷	Extended Price
	BAR AS PER QQ-A-225/8 OR	-A-200/8 OR AMS-QQ-A-200/8	18/07/2013 Yes 18/07/2013		36.00 f					\$30.00
							Lin	e Total:		\$30.00
_	M6061T6B0.500X02.500 SAME AS ABOVE	6061-T6 Bar .500 x 2.50	18/07/2013 Yes 18/07/2013		12.00 f					\$34.20
							Lin	e Total:		\$34.20
3	M6061T6B0.500X10.000	6061-T6 Bar .500 x 10.00	18/07/2013		12.00					\$134.90

Yes

18/07/2013

f

Note:

SAME AS ABOVE



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 11/07/2013 **PO Print Date** 17/07/2013

Page Number 2 of 4

Line Total:

\$429.40

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name				Buyer	Chantal Lavoie	
Vendor Phone	905 669 9444			Customer POID		
				Customer Tax #	10127-2607	
Ship To Contact				Terms	Net 30	
Ship To Phone				Currency	CAD	
Ship Via:	Yours ppd			FOB	Destination-Collect	
Ship Acct:						
					Line Total:	\$134.90
4 M6061T6B0.750X01	000 6061.	T6 Bar .750 x 1.00	18/07/2013	24.00		\$41.80
4 1000011000.750201	.000 0001-	10 Bat ./30 x 1.00	16/07/2015 Yes	24.00 f		941.00
SAME AS ABOVE			18/07/2013	•		
					Line Total:	\$41.80
5 M6061T6B0.750X01	500 6061	T6 Bar .750 X 1.50	18/07/2013	12.00		\$30.40
3 M000110B0./30A01	.300 0001-	10 Bat .730 A 1.30	Yes	12.00 f		\$30.40
SAME AS ABOVE			18/07/2013	•		
					Line Total:	\$30.40
6 M6061T6D1 000V0A	000 6061	T6 Bar 1.00 x 4.00	18/07/2013	48.00		\$429.40
6 M6061T6B1.000X04	-1000 0001-	10 Dar 1.00 x 4.00	18/07/2013 Yes	48.00 f		5429.40
SAME AS ABOVE			18/07/2013	1		
WA BATARU A BUT A SEPTEMBER			10.0,,2010			
			,			



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20531

Purchase Order Date 11/07/2013 **PO Print Date** 17/07/2013

Page Number 3 of 4

Line Total:

\$119.70

Order From:

7

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

Ship To: DART AEROSPACE LTD 1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name Buyer Chantal Lavoie **Vendor Phone** 905 669 9444 **Customer POID** Customer Tax # 10127-2607 **Ship To Contact** Terms Net 30 Ship To Phone CAD Currency Ship Via: Yours ppd **FOB** Destination-Collect Ship Acct: M6061T6B1.000X06.000 6061T6 BAR 1.00 X 6.00 18/07/2013 12.00 \$163.40 Yes f SAME AS ABOVE 18/07/2013 Line Total: \$163.40 M6061T6B1.000X12.000 6061-T6 Bar 1.00 x 12.00 18/07/2013 12.00 \$321.10 Yes f SAME AS ABOVE 18/07/2013 Line Total: \$321.10 M6061T6B30000X01.500 6061-T6 Bar 3.00 x 1.50 18/07/2013 12.00 \$119.70 Yes f

18/07/2013

Note:

SAME AS ABOVE

Purchase Order Receipt Listing

Wednesday, July 17, 2013 1:51:52 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO20531 Receipt Dates from 7/17/2013 to 7/17/2013 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Book Amt	\$28.52		\$32.52		\$128.26		\$39.74		\$28.90		\$408.27	
MRB Qty/ MRB Reject Qty	0 	0	0	0	0	0	0	0	0	0.	0 0	
Inspected Qty/ Rejected Qty M (PO U/M)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cost Per Unit/ Recv Value	\$0.79	\$28.52	\$2.71	\$32.52	\$10.69	\$128.26	\$1.66	\$39.74	\$2.41	\$28.90	\$8.51	\$408.27
Recv Oty (PO U/M)	36.0000		12.0000	45	12.0000		24.0000		12.0000		48.0000	
Recv Date/ Recv Emp	7/17/2013	DESJ02	7/17/2013	DESJ02	7/17/2013	DESJ02	7/17/2013	DESJ02	7/18/2013 7/17/2013	DES102	7/17/2013	DESJ02
Required Date Required Qty	7/18/2013	36.0000	7/18/2013	12.0000	7/18/2013	12.0000	7/18/2013	24.0000	7/18/2013	12.0000	7/18/2013	48.0000
	als CA Ltd			1,4,1						æ.		
PO U/M / Stock U/M	Thyssenkrupp Materials CA 375X01. f	5x f	X02. f)x f	X10. f)x f	X01. f)x f	X01. f	J X (X04. f	0x f
Reference/ Description/ Cert Std	VC-COP001 Thyssenkr M6061T6B0.375X01. f	6061T6 BAR .375 x 1.00	m126351 M6061T6B0.500X02. f	500 6061-T6 Bar .500 x 2.50 m126351	M6061T6B0.500X10. f	6061-T6 Bar .500 x 10.00 m126351	M6061T6B0.750X01. f	6061-T6 Bar .750 x 1.00	M6061T6B0.750X01. f	500 6061-T6 Bar .750 X 1.50	m126351 M6061T6B1.000X04. f	000 6061-T6 Bar 1.00 x
Project ID								÷		di .		
Line Nbr/ Insp Req	ndor Nam	No	2	N _o	m	No No	4	Š	٧٠	No	9	No
Purchase Order ID/ Curr Type	VendorID/Vendor Name PO20531 1	CAD										

7
of
7
age
EG.

Book Amt	\$155.36		\$305.30		\$113.81		\$365.11		\$128.26		200.0000 0.0000 0.0000 \$1,734.07 0.0000
MRB Qty/ MRB Reject Qty	. 0	0	0	0	0	0	0	0	0	0	antity:) U/M): tantity: Value:
Inspected Qty/ Rejected Qty (PO U/M)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value: Total Balance Due Quantity:
Cost Per Unit/ Recv Value	\$12.95	\$155.36	\$25.44	\$305.30	\$9.48	\$113.81	\$45.64	\$365.11	\$10.69	\$128.26	Total (
Recv Qty (PO U/M)	12.0000		12.0000		12.0000		8.0000		12.0000		
Recv Date/ Recv Emp	7/17/2013	DESJ02	7/17/2013	DESJ02	7/17/2013	DESJ02	7/17/2013	DESJ02	7/17/2013	DESJ02	
Required Date Required Qty	7/18/2013	12.0000	7/18/2013	12.0000	7/18/2013	12.0000	7/18/2013	8.0000	7/22/2013	12.0000	
Reference/ PO U/M / Description/ Stock U/M Cert Std	Thyssenkrupp Materia 31.000X06. f	6061T6 BAR 1.00 X f 6.00 m126351	M6061T6B1.000X12. f	6061-T6 Bar 1.00 x f 12.00 m126351	M6061T6B30000X01 f .500	6061-T6 Bar 3.00 x f 1.50 m126351	M6061T6B4.500X4.5 f 00	6061-T6 f AluminumBar 4.500" X 4.500" m126351	M6061T6B0.500X12. f 000	6061-T6 Bar .500 x f 12.00 m126351	
Purchase Line Project ID Order ID/ Nbr/ Curr Type Insp Req	VendorID\Vendor Name VC-PO20531 7	CAD No	∞	No	6	No	10	No	11	No	

No: PEC ST-585830

Quoted By: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Frt Tel	NET 30 DAYS/NET 30 JOURS QUENT PREPAID Via 613-632-9577 Fax 613-632-1053 Cto STAN IVERS (905-532-1350)	c CH	ANT	ĄL	FOE		.======	=
===	Q U O T Test Certs: Chem-Y Phys-Y 1 Origi	A I inal	' I (. co]	O N pies	QT with Shipment,	No: PEC	ST-585830)
1	ALUMINUM FLAT BAR 6061-T6511	36	FT	@	3 PCS .8333 FT 25.0000 LOT		16 LBS 36 FT 30.00 25.00	3
2	ALUMINUM FLAT BAR 6061-T6511				1 PCS 2.8500 FT		18 LBS 12 FT 34.20	3
3	ALUMINUM FLT BAR ECONOPLT 6061-T69 .500" X 10.00" X 144.0000" MATERIAL		FΤ	@	1 PCS 11.2417 FT		71 LBS 12 FT	3
4	ALUMINUM FLAT BAR 6061-T6511 .750" x 1.00" X 144.0000" MATERIAL	24	FT	@	2 PCS 1.7417 FT		22 LBS 24 FT 41.80	_
5	ALUMINUM FLAT BAR 6061-T6511 .750" X 1.50" X 144.0000" MATERIAL	12	FT	@ @	1 PCS 2.5333 FT		16 LBS 12 FT 30.40	
6	ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" MATERIAL	48	FT	@	4 PCS 8.9458 FT		226 LBS 48 FT 429.40	
 7	ALUMINUM FLAT BAR 6061-T6511				1 PCS		86 LB: 12 FT	S
8	ALUMINUM FLT BAR ECONOPLT 6061-T6 1.00" X 12.00" X 144.0000" MATERIAL			@	1 PCS 26.7583 FT		169 LB 12 FT 321.10	1

Page: 1Continued

No: PEC ST-585830

Quoted By:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115) DART AEROSPACE	DAR	ted Ship To: (1) T AEROSPACE	
9 ALUMINUM FLAT BAR 6061-T6511 1.50" x 3.00" X 144.0000" MATERIAL		QT No: 1 PCS 9.9750 FT	63 LBS 12 FT 119.70
10 ALUMINUM SQUARE BAR 6061-T6511 4.50" X 96.0000"		1 PCS	192 LBS 8 FT
< <ga +="" -="" 0.0000="" 0.1250="" lthtol="" pc="" td="" tol="" ty<="" wt="" wthtol=""><td>Tag 1 Skd Pk</td><td>48.0000 FT</td><td>384.00</td></ga>	Tag 1 Skd Pk	48.0000 FT	384.00
MILL TEST REPORTS, PACKING SLI WITH MATERIAL AND FAXED TO THE TO SHIPPING. ATTN: CHANTAL/LINDA ** ALL PACKING SLIPS MUST HAVE ** REFERENCED ON IT ** Price in effect at time of shi Price based on receipt of tota All weights are theoretical. All orders are subject to cred **** TEL. 800-926-2600 **** *** CUSTOMER PICK-UP HOURS *** *** 9:00 AM TO 4:00 PM ***	CUSTOMER PRICE THE HEAT NUMB pment. I order.	PR ER **	,
* WE STOCK STAINLESS S * PLEASE LET US QUOTE YOUR N ************************** ***PLEASE NOTE A \$25.00 ENERGY ADDED TO EVERY ORDER.*** ***************************** *FOR OUR FULL SALES TERMS AND *VISIT OUR WEBSITE: www.copper **********************************	EXT REQUIREMEN ******* SURCHARGE WIL ******* CONDITIONS, PI andbrass.com	****** L BE ***** EASE	·
**************************************	************** eight Ot 25	her Taxes 222.80	**************************************

Page: 2Last

1½Jul13 14:52 SALES ACKNOWLEDGMENT No: PEC ST-586090

Sold By:

P

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Sold To: (20115) DART AEROSPACE 1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Ord 11Jul13 Due15Jul13
Frt PREPAID Via VIM TRANSFER FOB CONCORD
Con 96294 PO/Rel 20531

Slp STAN IVERS (905-532-1350) Tel 613-632-9577 Fax 613-632-1053

SID STAN IVERS (905-532-1350) 1e	T 07	L3-6	34-3	95// Fax (
SALES ACKN Test Certs: Chem Y Phys Y 1 Orig				GMEN'	T SO	No PEC	ST-586090
ENERGY & CAP SURCHG				.833 25.00	00 LOT		16 LBS 36 FT 30.00 25.00
2 ALUMINUM FLAT BAR 6061-T6511 .50" x 2.50" X 144.0000" MATERIAL				2.85	1 PCS 00 FT		18 LBS 12 FT 34.20
3 ALUMINUM FLT BAR ECONOPLT 6061-T6 .500" X 10.00" X 144.0000" MATERIAL		FT	@	11.24	1 PCS		71 LBS 12 FT
4 ALUMINUM FLAT BAR 6061-T6511 .750" x 1.00" X 144.0000" MATERIAL	24	FT	@	1.74	2 PCS 17 FT		22 LBS 24 FT 41.80
5 ALUMINUM FLAT BAR 6061-T6511 .750" X 1.50" X 144.0000" MATERIAL	12	FT	@	2.53	1 PCS 33 FT		16 LBS 12 FT 30.40
6 ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" MATERIAL	48	FT	@	8.94	4 PCS 58 FT		226 LBS 48 FT 429.40
7 ALUMINUM FLAT BAR 6061-T6511 1.00" x 6.00" X 144.0000" MATERIAL	12	FT	@	13.61	1 PCS 67 FT		86 LBS 12 FT 163.40
8 ALUMINUM FLT BAR ECONOPLT 6061-T6 1.00" X 12.00" X 144.0000" MATERIAL			@	26.75	1 PCS 83 FT		169 LBS 12 FT 321.10
9 ALUMINUM FLAT BAR 6061-T6511 1.50" x 3.00" X 144.0000" MATERIAL	12	FT	@	9.97	1 PCS 50 FT		63 LBS 12 FT 119.70

SALES ACKNOWLEDGMENT No: PEC ST-586090 1.1Jul13 14:52 Sold By: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 Sold To: (20115) Ship To: (1) DART AEROSPACE DART AEROSPACE _______ SALES ACKNOWLEDGMENT SO No PEC ST-586090 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice 10 ALUMINUM SQUARE BAR 6061-T6511 1 PCS 4.50" X 96.0000" <<<---->>> Ga Tol + 0.0000 - 0.0000 Pc/Tag 1 WthTol + 0.0000 - 0.0000 Wt/Skd LthTol + 0.1250 - 0.0000 Ty Pk MATERIAL 8 FT @ 48.0000 FT ------MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING. ATTN: CHANTAL/LINDA ** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER ** ** REFERENCED ON IT ** ** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM ** *** TEL. 800-926-2600 *** *************** WE STOCK STAINLESS STEEL!!!! * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT ***************** ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. *** **************** *FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE *VISIT OUR WEBSITE: www.copperandbrass.com ****************

Taxes: ONHSTS 222.80

Page: 2 Last

BILL OF LADING I N G No: PEC 832058 Ship Date 16Jul13 at 9:42 From PFW THYSSENKRUPP MATERIALS NA Probill 2821 LANGSTAFF ROAD Via VIM TRANSFER CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 FOB CONCORD Frt PREPAID Route 0- 0 Manifest Vhcle Slp STAN IVERS (905-532-1350) Sold To: (20115) Ship To: (1) DART AEROSPACE DART AEROSPACE 1270 ABERDEEN ST 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053 BILL OF LADING Our Order PEC-586090- 1 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .375" x 1.00" X 144.0000"

Heat Number Tag No Quantity PCS 21385265 198419 36 FT 3 Wt LBS 2/ Our Order PEC-586090- 2 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 7.50" x 2.50" X 144.0000"

Heat Number Tag No Quantity PCS 21288872 198420 12 FT 1 Wt LBS 3) Our Order PEC-586090- 3 Your PO # 20531 ALUMINUM FLT BAR ECONOPLT 6061-T6511 .500" X 10.00" X 144.0000" LUMINUM FLT BAR ECONOPLT 6061-T6511

500" X 10.00" X 144.0000"

Heat Number Tag No Quantity PCS Wt LBS

Z00191031 198421 12 FT 1 69 4) Our Order PEC-586090- 4 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .750" x 1.00" X 144.0000" fleat Number Tag No Quantity PCS 201308343 198422 24 FT 2 Wt LBS 23 5) Our Order PEC-586090- 5 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .750" X 1.50" X 144.0000" Wt LBS Heat Number Quantity PCS 12 FT 1 Tag No 201310405 Tag No 201310405 198423 16 Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOINEN RAPPORTÉES IMMÉDIATEMENT ERRORS OR SHORTAGE MUST, BE REPORTED IMMEDIATELY RETOURIDE MARCHANDISES AVEC NOTRE NUMEROLD APPROBATION SEULEMENT.

Trailer

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 Fr Ro Vh Ship To: (1)	N G No: PEC 832058 hip Date 16Jul13 at 9:42 From PFW robill ia VIM TRANSFER OB CONCORD rt PREPAID oute 0- 0 Manifest hcle Trailer lp STAN IVERS (905-532-1350) old To: (20115) ART AEROSPACE
BILL OF LAD	I N G
6) Our Order PEC-586090- 6 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" Heat Number Tag No 201313249 198424	Quantity PCS MTR Wt LBS 36 FT 3 174
7) Our Order PEC-586090- 7 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 1.00" x 6.00" X 144.0000" Heat Number Tag No 201309168 198425	Quantity PCS MIR Wt LBS 12 FT 1 86
8) Our Order PEC-586090- 8 Your PO # 20531 ALUMINUM FLT BAR ECONOPLT 6061-T6511 1.00" X 12.00" X 144.9000" Heat Number Tag No Z00014042 198426	1
9) Our Order PEC-586090- 9 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 1.50" x 3.00" X 144 0000" Heat Number Tag No 201303343 198427	1 000 000 100 100 100 100 100 100 100 1
10) Our Order PEC-586090- 10 Your PO # 20531 ALUMINUM SQUARE BAR 6061-T6511 4.50" X 96.0000 Heat Number Tag No 21382208 198605	Quantity PCS Wt LBS 8 FT 1 192
	Tags PCS LBS 827 **
TOUTES ERREURS ET/OU MARCHANDISES MANQUANTIES DOMENT ETTRE RAPPORTEES IMMEDIATIEMENT, ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATIELY RETOUR DE MARCHANDISES AVEC NOTIFE NUMERO D'APPROBATION SEULEMENT, MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.	

OF LADING BILL Ship From: Ship Date 16Jul13 at THYSSENKRUPP MATERIALS NA Probill 2821 LANGSTAFF ROAD Via VIM TRANSFER CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 FOB CONCORD Frt PREPAID 0- 0 Manifest Route Vhcle Slp STAN IVERS (905-532-1350) Ship To: 1) Sold To: DART AEROSPACE DART AEROSPACE BILL OF LADING 201303343 201308343 201309168 201310405 201313249 21288872 21382208 21385265 Z00014042 Z00191031 MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING. ATTN: CHANTAL/LINDA ** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER ** ** REFERENCED ON IT ** TOTAL 2 BDLS G.W. 874 LBS ITEMS (1-9) BDL ITEM (10) BDL *CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT.* * * * 9:00 AM TO 4:00 PM **** TEL. 800-926-2600 **** ************************ WE STOCK STAINLESS STEEL PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *************** ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. ***

Page: 3 Last



No:

Trailer

(20115)

PEC 832058

9:42 From PFW

ALUMINUM FLAT BAR 6061-T6511 .375" x 1.00" X 144.0000" PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-832058-001

16Jul13 Pg 1/2

X			
CRESSONA, PA	1	53 POTTSVILLE STREET	Sapa Industrial Extrusions

Sapa Extrusions Inc., a Subsidiary of Sapa AB

17929-0187

invoice To Customer

THYSSENKRUPP MATERIALS NA INC

ATTN: ACCOUNT PAYABLE 2821 LANGSTAFF ROAD

Ship To Customer CONCORD, ON - L4K-5C6

2821 LANGSTAFF ROAD THYSSENKRUPP MATERIALS NA INC

CONCORD, ON - L4K5C6

7

	810000018	Sales Order Number	,	Certified inspection Report
	Line No.			ection Kepor
1000000	NEW-749194 4	Customer P/G		ď
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07-NIAT-13		Cert Print Date	Page of 2	Page

Applicable Specifications, Revisions and Enceptions	.375X1	CustomerPart No.	1424388	Delivery Id	426022	JAE.	730 LB	Quantity Shipped
evisions and F				 F	Q	Ite		Da
inceptions.	•			Item No. Rev	G03361550	Item No.	07-MAY-13	Date Shipped
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				Marking CONTINUOUS;	W/F 0.441 F 06 CS 1.1	144,000 IN LN	0.375 TK x 1.000 W	Item Description Extended Recessories Bar
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3 -		\{ _	13	Slo	7(15	1997	

Heat

egal Statement

We bereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and leased in accordance with, and has been found to most, the applicable requirements described herein, including any specifications forming a part of the description and that samples repentative of the maximal mult be composition and had the prechanced properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in alumnatum alloys and neither it nor say of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

this certified inspection report. Remainder is Aluminum.

COMPOSITION NOTE: The values for Others Each' and 'Others Total' have met the limits as shown on

William Martin III Tech/Quality Manager

07-MAY-13

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Composition Limits

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THYSSENKRUPP MATERIALS NA DART AEROSPACE ALUMINUM FLAT BAR 6061-T65511 .375" x 1.00" X 144.0000" PART NO.

PO/Rel 20531
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

Signed by:

BL PEC-832058-001

16Jul13 Pg 2/2

Sona Tamberrial Extrasions	Certified Inspection Report	Report	Cert Number	Page
SPOTTAVILLE STREET	•	•	SAPA760904	Page 2 of 2
	Sales Order Number	Customer PA	Cert Creation Date	Cert Print Date
CKESSANIA, FA 17929-0187	1100603218	4 PEC-248184-4	07-MAY-13	07-MAY-13
Alloy Min Mess Min Dans 6061 — 0.15 — 0.05	Min Nin Min Mai	Min acc 20 Max 5		
Composition Results				
Host Cust 1977 Rt 1977 1978 1979 1979 1979 1979 1979 1979	Mg Gr Zm	0.02	Others Each Others Total	İ
Mechanical Property - Test Limits	T-5XI.	EL 4D-Long		
		ات ا		
	221 485	THE PARTY OF THE P		
Tert Notes Products manufactured with a T5SH temper who much T6 temper requirements.				
Yield strongth has been determined by the 8.2% officer method All Mill Finish Alloys produced at Supa Extrusions comply with 0.4% Maximum Lead per Roffs, with the exception of 6262 alloy	ead per Roffs, with the exception of 6263 allog			
In accordance with EN 19204 Inspection Certificate Type 3.1 Melted in the USA or Other Qualified Countries as Defined by DFARS 225.872.1				
Mule in USA				

ALUMINUM FLAT BAR 6061-T6511 .50" x 2.50" X 144.0000" PART NO. DART AEROSPACE

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results BL PEC-832058-002

16Jul13 Pg 1/3

	1			
17929-0187	CRESSONA, PA	1	53 POTTSVILLE STREET	Sapa Industrial Extrusions

Sapa Extrasions Inc., a Subsidiary of Sapa AB

Invoice To Customer

ATTN: ACCOUNT PAYABLE 2821 LANGSTAFF ROAD THYSSENKRUPP MATERIALS NA INC

CONCORD, ON - LAK-506

Ship To Customer THYSSENKRUPP MATERIALS NA INC 2821 LANGSTAFF ROAD

CONCORD, ON - L4K5Os

Certified Inspection Report	+	Cert Number	Page
		SAPA757768	Page 1 of 3
Sabs Order Number	Castomer I/O	Cert Creation Date	Cert Print Date
1100598155	PEC-247872-4	02-MAY-13	02-MAY-13

Quantity Shipped	Date Shipped	Item Description Extruded Rectangular Bar	Specification	
Z397 L.B	02-MAY-13	0.500 TK x 2.500 W RAD	AMS-QQ-A-2008 REV 1997	ĵ
BÆ	Hem No.	HIN M-MILL	UNS#A96061 REV	11
424721	C03361828	W/F 1.47 F 04 CS 2.5	(8)	lo
Delivery Id	Item No. Rev	MERINE CONTINUOUS;		,13
4423621	1			
CustomerPart No.				
5X2.5				
Applicable Specifications, Revisions and Exceptions	and Exceptions			
COMPOSITION NOTE: The values for 'Others Fach' and 'Others Total' have met the limits as shown on	ues for 'Others Each' and 'Others	Total have met the limits as	shown on	
fhis certified inspection report. Remainder is Aluminum.	enainder is Aluminum.			

egal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the staterial met the composition and had the nechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

William TI Signature And Title

William Martin III

02-MAY-13

Toch/Quality Manager

G12-PKG1934198	G12-PKG1928672	G12-PKG1928672	G12-PKG1928652	Quantifies per Lot / Packages Postage Number G12-PKG1839570
21397829	21391318	21391318	21391318	(1288FT)
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Composition Limits

DART AEROSPACE ALUMINUM FLAT BAR 6061-T6511 .50" x 2.50" X 144.0000" PART NO.

PO/Rel 20531
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results BL PEC-832058-002

16Jul13 Pg 2/3

Sapa Industrial Extrusions
53 POTTSVILLE STREET CRESSONA, PA 17929-0187

Certified Inspection Report

1100598155 Sales Order Number Line No. PEC-247872-4 Customer P/O

02-MAY-13	Cert Creation Date	SAPA757768	Cert Number
02-MAY-13	Cert Print Date	Page	Page
7	n Date	2 of 3	

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Composition Results

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Mechanical Property - Test Limits

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THYSSENKRUPP MATERIALS NA DART AEROSPACE ALUMINUM FLAT BAR 6061-T6511 S0" x 2.50" X 144.0000" PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results BL PEC-832058-002

16Jul13 Pg 3/3

Sapa Industrial Extrasions
53 POTTSVILLE STREET CRESSONA, PA

17929-0187

1100598155 Sales Order Number **Certified Inspection Report**

Cert Number

Page

02-MAY-13 Cert Print Date 3 of 3

Line No. PEC-247872-4 Customer P/O 02-MAY-13 SAPA757768 Cert Creation Date Page

TEST	er Temper		100	
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Cert Notes

roducts manufactured with a T6511 temper also meet 16 temper requirements.

field strength has been determined by the 0,2% offset method

All Mill Finish Albys produced at Sapa Extrusions comply with 0.4% Maximum Lend per RoHS, with the exception of 6262 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Melted in the USA or Other Qualified Countries as Defined by DFARS 225.872.1

Vlade in USA

DART AEROSPACE

ALUMÎNUM FLT BAR ECONOPLT 6061-T6511 .500" X 10.00" X 144.0000" PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. **Certificate of Mill Test Results**

BL PEC-832058-003

16Jul13 Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

CERTIFIED TEST REPORT

Signed by:

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBI	ER:	CUSTOMER PART NUMBER:	PRODUCT DESCRIPTION	ON:			
PEC-249933-2	,	W60/STK	(.500 X 10.000 PF	.500 X 10.000 PRECISION WIDE BAR			
KAISER ORDER NUMB	ER: LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
647403	002	07/05/2013	Z00191031	6064	(T65√1)		
WEIGHT SHIPPED	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	HENGTH		
1692.000 LB	24.000 PC	S 606590			12.000 FT		
SHIP TO:	<u> </u>		SOLD TO:				
THYSSENKRUP 2821 LANGSTAI CONCORD, ON	F ROAD	•	THYSSENKRUP 2821 LANGSTAF CONCORD, ON	F ROAD			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARI	NESS	CONDUCT.	BEND
Z00191031	0001	1	47.8	43.7	13.5	RE	94	N/A	N/A
Z00191031	0001	2	46.5	42.7	13.2	RE	94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	C.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	AИ	АИ	0.00	0.00
102765	.72	.29	.24	.09	. 94	.09	.C4	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97(RD7) UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warrancy is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager

Timothy K. Fargo, Quality &

Flant Serial: 00096637

Kaiser Order Number: 647403

Line Item: 002

ALUMINUM FLAT BAR 6061-T6511 .750" x 1.00" X 144.0000" PART NO. DART AEROSPACE

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results BL PEC-832058-004

16Jul13 Pg 1/1



SERVICE CENTER METALS Prince George, VA 23875 5850 Quality Way

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

175012

6

Quantity Certified 1,143 lbs 108 pcs	ThyssenKrupp Materials NA, Toronto	SHIP TO CUST	ThyssenKrupp Materials NA	BILL TO
CUSTOMER PART NUMBER RB0111	PEC-247920	CUSTOMER PO	188759	MANWEST NUMBER
SCRB (750x1.000	©061-T651)	ALLOY / NEW PER	RB0111	DIE NUMBER
	David Schroeder	SALESPERSON	4/30/2013	DATE OF SHIPMENT

SCM extrusions are manufactured in the USA. description, and that samples representative of the material met the composition limits and had the mechanical properties shown. revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

also meet the requirements of 6061-T6 Items produced and certified as 6061-T6511

	2 201308343	Tests Lot.No.
5 36118	4/27/13	lest Date
	min 53.00	Ultimate I Strength
	max 54.00	Tensile h (KSI)
	min 49.80	Yield Stra (KSI)
	max min 51.00 12.85	<u>angth</u>
		Percent Elongatio
	max 14.45	<u>ent</u> ation

Chemic
Chemical Composition for Aluminum Alloy 6061
tion for Alı
uminum A
Jioy 6061

111823	Cast Number
6061	Alloy
0.76	िल
0.35	Fe
0.32	C
0.09	Mn
0.90	Mg
0.09	ļΩ
0.07	<u>Zn</u>
0.02	Ħ
97.40	Æ
0.05	Others <u>Each Total</u>
0.15	Others <u>Total</u>
United States of America	Melt Source:

Director of Quality & Technical Services

Print Date: 4/30/2013

DART AEROSPACE THYSSENKRUPP MATERIALS NA

ALUMINUM FLAT BAR 6061-T6511 750'' X 1.50'' X 144.0000''

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Attn:

Certificate of Mill Test Results BL PEC-832058-005



BILL TO

ThyssenKrupp Materials NA

ThyssenKrupp Materials NA, Toronto

Quantity Certified

1,143 lbs

72pcs

CUSTOMER PART NUMBER

RB0113

SCR# .750x1.500

DESCRIPTION

SERVICE CENTER METALS Prince George, VA 23875 5850 Quality Way

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

CUSTOMER PO MANIFEST NUMBER PEC-248562 191112 ALLOY TEMPER 8061-T651) DIE NUMBER RB0113 SALESPERSON DATE OF SHIPMENT 5/23/2013

CERTIFICATION

OUR ORDER NUMBER

176913

Q

. 3

description, and that samples representative of the material met the composition limits and had the mechanical properties shown revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification SCM extrusions are manufactured in the USA

Tests

David Schroeder SPECIFICATION AMS-QQA-200/8 - 1997 Items produced and certified as 6061-T6511 ASTM-B221-12a StencilCont

also meet the requirements of 6061-T6

mecnanical Properties 201310405 Lat-No 53/27/18 lest Date 5/22/13 51.90 Strength (KSI) 52.90 max min 47.00 Yield Strength KS min 13.20 Elongation Percent 14.35

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l	al Composition for Aluminum Alloy 60
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	051231	Cast Number
	6061	Alloy
	0.77	<u> ⊼</u>
	0.35	F e
	0.30	<u>C</u>
	0.10	Mn
	0.87	Mg
	0.10	ļζ
	0.05	Zn
	0.02	Ħ
	97.44	Æ
	0.05	Others <u>Each</u> <u>Total</u>
-	0.15	Total
	United States of America	Melt Source:

Print Date: 5/23/2013

ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" DART AEROSPACE

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-832058-006

Pg 1/1

Signed by:

BILL TO

ThyssenKrupp Materials NA

ThyssenKrupp Materials NA, Toronto

Quantity Certified

1,140 lbs

20 pcs

GUSTOMER PO

MANUFEST NUMBER

194603

SERVICE CENTER METALS

Prince George, VA 23875 5850 Quality Way

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

179742

CERTIFICATION

DIE NUMBER DY / TEMPER MRB1795 DATE OF SHIPMENT 6/28/2013

CUSTOMER PART NUMBER PEC-249581 MRB1795 MORB 1.000x4.000 6061-T6511

SALESPERSON David Schroeder ASTM-B221-12a StencilCont

AMS-QQA-200/8 - 1997 SPECIFICATION

description, and that samples representative of the material met the composition limits and had the mechanical properties shown. revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

SCM extrusions are manufactured in the USA.

also meet the requirements of 6061-T6 Items produced and certified as 6061-T6511

	6 (201313249)	Mechanical Properties Tests Lot No.
813l07	6/26/13	Test Date
	min 46.20	Ultimate To Strength
	max 54 .90	th (KSI)
	min 43.50	Yield Strei (KSI)
	max 51.40	rength 1)
	min 11.85	Percent Elongatio
	max 16.10	ent

Chemical (
cal Com
Composition for Aluminum Alloy 6061
for Al
uminun
Alloy
6061

0413201 6061 0.70 0.30 0.32 0.09 0.87 0.09 0.05 0.02 0513087 6061 0.67 0.26 0.33 0.08 0.87 0.08 0.04 0.02	6061 0.67 0.30 0.31 0.09 0.84 0.08 0.07	Cast Number Alloy Si Fe Cu Mn Mg Cr Zn II
0.32 0.33	0.31	Cu
0.09	0.09	Mn
0.87 0.87	0.84	Mg
0.0 9 0.08	0.08	Cr
-	-	Zn
0.02 0.02	0.02	
97.56 97.65	97.62	<u>A</u>
0.05 0.05	0.05	Others Each]
0.15 0.15	0.15	ers <u>Total</u>
United States of America United States of America	United States of America	Melt Source:

Calvin J. Wingins.

Director of Quality & Technical Services

Print Date: 6/28/2013

ALUMINUM FLAT BAR 6061-T6511 1.00" x 6.00" X 144.0000" DART AEROSPACE PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results BL PEC-832058-007

Pg 1/1



BILL TO

ThyssenKrupp Materials NA

ThyssenKrupp Materials NA, Toronto

Quantity Certified

1,778 lbs

21pcs

CUSTOMER PO

MANIFEST NUMBER

SERVICE CENTER METALS

Prince George, VA 23875 5850 Quality Way

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

HEA

ð

175662

189872 DIE NUMBER ALLOY! TEMPER PLOTAG DATE OF SHIPMENT 5/10/2013

CUSTOMER PART NUMBER PEC-248148 PL0130 PL 1/200x6.000 DESCRIPTION 6061-T65

SALESPERSON

David Schroeder

AMS-QQA-200/8 - 1997 ASTM-B221-12a StencilCont CERTIFICATION SPECIFICATION

also meet the requirements of 6061-T6 Items produced and certified as 6061-T6511

description, and that samples representative of the material met the composition limits and had the mechanical properties shown. revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the We hereby certify that the material covered by this report has been inspected in accordance with the host recent certification SCM extrusions are manufactured in the USA

Mechanical Properties Tests 201309168 Lot No 8/3/07/19 5/8/13 Test Date 49.60 min Strength (KSI) 49.60 max min 44.90 Yield Strength (KSI) max 44.90 B 14.55 Elongation necre max 14.55

Cast Number	Chemical Con
Alloy	aposition for
<u>S</u>	Alumi
Fe	uminum A
Cu	lloy 60
Mn	62
Mg	
입	
Zn	
크	
Æ	
Each	
Others Each Total	
Melt Source:	

Print Date: 5/10/2013

Calvin J. Wingins

Director of Quality & Technical Service

0413201 0413197

5061 6061

0.74 0.70

0.36 0.30

0.31

0.10 0.09

0.86 0.87

0.11 0.09

0.05 0.08

0.02 0.02

97.56

97.42

0.05 0.05

0.15

United States of America United States of America Total

0.32

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511 1.00" X 12.00" X 144.0000" PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

RT PEC-832058-008

Signed by:_	4	Pg 1/
~ , _	0	•





CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

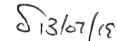
KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBER	R:	CUSTOMER PART NO	JMBER: PRODI	PRODUCT DESCRIPTION:				
PEC-249684-3		ALREC01028	1.000	X 12.000 PR	ECISION WIDE BA	·R		
KAISER ORDER NUMBE	R. LINE ITEM:	SHIP DA	ATE: KAISE	R'EOT NUMBER?	ALLOY:	TEMPER:		
646680	003	06/28	/2013 2000	14042	6061	T6511B		
WEIGHT SHIPPED:	QUANTITY:	B/L NUI	MBER: DIAM/	DAF/THKNS/	WIDTH:	LENGTH:		
1016.000 LB 6.000 PCS 606564			34			12.000 FT		
SHIP TO:				SOLD TO:				
THYSSENKRUPP 2821 LANGSTAFI CONCORD, ON L	ROAD		2821	LANGSTAFF	MATERIALS NA ROAD IK 5C6 CANADA			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARI	NESS	CONDUCT.	BEND
ZCC014042	0001	1	50.3	46.1	15.7	RE	91	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder



LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum Minimum 102610	0.4¢	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.05 0.00 .01	0.00

Applicable Requirements:

PER ASTM-B221-13, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 (1997) UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6C61-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN FLONGATION - 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITARD BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifles that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Fargo, Quality & Technology Manager

Plant Serial: C0096203

Kaiser Order Number: 646680

Line Item: 003

Page 1 of 1

ALUMINUM FLAT BAR 6061-T6511 1.50" x 3.00" X 144.0000" DART AEROSPACE 'ART NO

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. PO/Rel 20531

Signed by:

Certificate of Mill Test Results BL PEC-832058-009

Pg 1/1



BILL TO

SERVICE CENTER METALS

Prince George, VA 23875 5850 Quality Way

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

ThyssenKrupp Materials NA, Toronto ThyssenKrupp Materials NA Quantity Certified 1,536 lbs 24pcs CUSTOMER PO MANIFEST NUMBER CUSTOMER PART NUMBER PEC-246883 RB0140 185858 ALLOY (TEMPER) S&RB 1(500x3.08) DIE NUMBER DATE OF SHIPMENT David Schroeder 4/1/2013 .ASTM-B221-12a StencilCont CERTIFICATION AMS-QQA-200/8 - 1997 SPECIFICATION OUR ORDER NUMBER 172124 Ņ

description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA <u> Mechanical Properues</u>

Tests

Lot No.

201303343

8 13/07/19

revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

also meet the requirements of 6061-T6

Items produced and certified as 6061-T6511

2/20/13 49.10 E E Ultimate Tensile Strength (KSI) max 50.40 min 47.90 Yield Strength (KSI) max 48.20 min 15.15 Elongation Percent max 15.40

Print Date: 4/1/2013			7	a l	<u></u>								
United States of America	0.15 0.15	0.05 0.05	97.39 97.49	0.02 0.02	0.06	0.11	0.91 0.8 5	0.11 0.09	0.32 0.31	0.36 0.36	0.73 0.73	6061 6061	0213088 0213090
Melt Source:	Total	Each	AL	Ħ		Ω	Mg	S	l C	Fe	R	Alloy	Cast Number
	SIS	Others							оу 606	um All	Alumin	position for	Chemical Composition for Aluminum Alloy 606

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 3/27/13

ALUMINUM SQUARE BAR 6061-T6511 4.50" X 96.0000" PART NO. DART AEROSPACE

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results BL PEC-832058-010

16Jul13 Pg 1/2

Signed by:

1			
CRESSONA, PA	1	53 POTTSVILLE STREET	Sapa Industrial Extrasions

Sapa Extrusions Inc., a Subsidiary of Sapa AB

17929-0187

Invoice To Customer

ATTN: ACCOUNT PAYABLE 2821 LANGSTAFF ROAD THYSSENKRUPP MATERIALS NA INC

CONCORD, ON - 14K-5C6

Ship To Castumer

2821 LANGSTAFF ROAD THYSSENKRUTT MATERIALS NA INC

CONCORD, ON - L4K5C6

1100002294	Sales Order Number		Certified Inspection Report
2	Line No.		ection Ro
125C-248106-002	Customer P/O		eport
02-MAY 13	Cert Creation Date	SAPA757893	Cerl Number
02-MAY-13	Cert Print Date	Page 1 of 2	Page

comPosition N	ACC-U-BAR	Applicable Specifications, Revisions and Exceptions	4.5SQ	CusiomerPart No.	4425033	Delivery Id	424743	B/L	1150	Quantity Shipped
ction report. I		dons, Revision							LB	Ì
COMPOSITION NOTE: The values for Others Each' and this certified inspection report. Remainder is Aluminum.		s and Exceptions				Item No. Rev	G03211227	Jiem No.	02-MAY-13	Date Shipped
COMPOSITION NOTE: The values for Others Each' and Others Total have met the lituits as shown on this certified inspection report. Remainder is Alumnoum.				Marking CONTINUOUS;	W/F 23.993 F 1 CS 6.37	FIN M-MILL	W TOL +.034/000	1.500 TK + 4.500 W	Extruded ACC-U-BAR	Hen Description
is shown on								AMS-QQ-A-ZXV8 REV 1997 Meets 6063-T6511H, 6061-T6511 RHY	ASIMBZI REV IZA	Specification
				5	<u> </u>	13	>	7	ኅ	

Legal Statement

tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the inchanical properties shown on the face of this certification. Also, note that mercupy is not a swrmal contaminant in aluminum alloys and neither it not any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept. We hereby certify that, unless otherwise indicated, the material exversel by this report has been manufactured, inspected, and Tech/Quality Manager

Signature And Title William Martin III William T. Martin, T. 02-WAY-13

6061	Composition Limits	Quantities per Lot/ Package. Package Number G12-PKG 921012
Nua 91		
0.80		2007
i 22		
Max 0.70		Los Numb
0.13		
Cu Max 0.40		
Min		Quantity
Max 0.15		PCS NOM
0.80		2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Mg Max 1.20		Weight (Gross
Min		1150 Nel: (()
Max 0.35		
1 - 7		

Zn

Man

0.25

THYSSENKRUPP MATERIALS NA DART AEROSPACE ALUMINUM SQUARE BAR 6061-T6511 4.50" X 96.0000" PART NO.

PO/Rel 20531
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-832058-010

16Jul13 Pg 2/2

Sapa Industrial Extrusions
S3 POTTSVILLE STREET CRESSONA, PA 17929-0187

Certified Inspection Report

Sales Order Number 1100602244

Line No. PEC-248106-002 Customer P/O 02-MAY-13

Cert Creation Date	SAPA757893	Cert Number	
Cerl Print Date	Page	Page	
if Date	2 of 2		

1	Min	
0.15	Mari	4.446a 0.4 %
ł	ujA	200 A
0.05	Max	M
!	Min	
0.05	XIA.	
	X.	Qthen
0.05	Walk.	Rech
1	Min	Other
0.15	Max	Total

4030129	Heat / Cast	4030033	Heat / Cast
0.77	100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT.	0.70	18
0.43		0.34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0.33	δ	0.30	C _L
0.12	∴ ::Mn	0.11	Ma
0.94	M	0.91	
0.15	C.	0.13	•
0.06	3: 200 Zn 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3:	0.03	24
0,02	1 T	0.02	'n
;	38	:	B i.
1	74	:	* Pb
1	Others Each	;	Others Bach
1 100	Others Total	1	Others Total

Mechanical Property - Test Limits

Composition Results

3

				Torr .
Т6511Н	Test Temper			
21382208	Loi Number			
-	e start for Tests		NOT	Test Tri
55.7	MIN YAME		*	b UTS
. 337	MARCHINA	•	KSI	UTS-L
51.2	NO VILLE			177
52.2	ONITAL STATES	1	KSI	76-1
12.2	H. W. C. H. L.			E1.4E
1222	MAX Value T	•	PCT	>-Lung

rularis menafectured with a 16511 temper also meet 16 temper requirements

Vield strength has been determined by the 0.2% offset method

All Mill Finish Alloys produced at Sapa Fxtrasions compty with 0.4% Maximum Lead per RollS, with the exception of 6262 alloy

accordance with EN 19204 Inspection Certificate Type 3.1

felted in the USA or Other Qualified Countries as Defined by DFARS 225,872.)

Made in USA

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

ADING No: PEC 832058 Ship Date 16Jul13 at 9:42 From PFW Probill Via VIM TRANSFER CONCORD FOB PREPAID Frt Route 0- 0 Manifest Vhcle Trailer Slp STAN IVERS (905-532-1350) Sold To: (20115) DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7

			=======
BILL OF LADIN 1) Our Order PEC-586090- 1 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .375" x 1.00" X 144.0000" Heat Number Tag No 21385265 198419	Quantity 36 FT	MTR PCS 3	Wt LBS 16
2) Our Order PEC-586090- 2 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .50" x 2.50" X 144.0000" Heat Number Tag No 21288872 198420	Quantity 12 FT	PCS WTR	Wt LBS 17
3) Our Order PEC-586090- 3 Your PO # 20531 ALUMINUM FLT BAR ECONOPLT 6061-T6511 .500" X 10.00" X 144.0000" Heat Number Tag No Z00191031 198421	Quantity 12 FT	PCS 1	Wt LBS
4) Our Order PEC-586090- 4 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .750" x 1.00" X 144.0000" Heat Number Tag No 201308343 198422	Quantity 24 FT	ATD 2	Wt LBS 23
5) Our Order PEC-586090- 5 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 .750" X 1.50" X 144.0000" Heat Number Tag No 201310405 198423	Quantity 12 FT	MTR PCS 1	Wt LBS 16

TOUTES ERREURS ET/OU MARCHANDISES MANOUANTES DOIVENT ETRE PAPPORTEES IMMEDIATEMENT ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEG NOTRE NUMERO D'APPROBATION SEULEMENT MERCHANDISE MAY NOTRE RETURNED WITHOUT OUR APPROVAL NUMBER.

Page: 1Continued

BILL OF LADING No: PEC 832058 Ship Date 16Jul13 at 9:42 From PFW THYSSENKRUPP MATERIALS NA Probill Via VIM TRANSFER FOB CONCORD 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 Frt PREPAID
Route 0- 0 Manifest
Tra Vhcle Trailer Slp STAN IVERS (905-532-1350) Sold To: (20115) Ship To: (1)
DART AEROSPACE DART AEROSPACE ________ BILL OF LADING 6) Our Order PEC-586090- 6 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000"

Heat Number Tag No Quantity PCS
201313249 198424 36 FT 3 174 7) Our Order PEC-586090- 7 Your PO # 20531 ALUMINUM FLAT BAR 6061-T6511

1.00" x 6.00" X 144.0000"

Heat Number Tag No Quantity PCS
201309168 198425 12 FT 1 Wt LBS 8) Our Order PEC-586090- 8 Your PO # 20531 ALUMINUM FLT BAR ECONOPLT 6061-T6511 ANTO 1.00" X 12.00" X 144.0000"

Heat Number Tag No Quantity PCS Wt LBS
Z00014042 198426 12 FT 1 171 9) Our Order PEC-586090- 9 Your PO # 20531
ALUMINUM FLAT BAR 6061-T6511
1.50" x 3.00" X 144.0000"
Heat Number Tag No Quantity PCS 201303343 198427 12 FT 1 Wt LBS 10) Our Order PEC-586090- 10 Your PO # 20531 AATD ALUMINUM SQUARE BAR 6061-T6511 4.50" X 96.0000" Quantity PCS Wt LBS 8 FT 1 192 Tag No Heat Number 21382208 198605 Tags PCS LBS TOTAL: 10 15 827 *** Chemical Analysis *** Heat Number Page: 2Continued TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÉTRÉ RAPPORTIES MMEDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEO NOTRE NUMERO D'APPROBATION SEULEMEN MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVALINUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATI

```
LADING
                                                         No: PEC 832058
                                        Ship Date 16Jul13 at 9:42 From PFW
Ship From:
  THYSSENKRUPP MATERIALS NA
                                        Probill
  2821 LANGSTAFF ROAD
                                             VIM TRANSFER
                                        Via
  CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033
                                        FOB
                                             CONCORD
                                             PREPAID
                                        Frt
                                        Route
                                               0- 0 Manifest
                                                         Trailer
                                        Vhcle
                                             STAN IVERS (905-532-1350)
                                        Slp
                                        Sold To: ( 20115)
  Ship To:
DART AEROSPACE
                                        DART AEROSPACE
OF LADING
                    BILL
201303343
201308343
201309168
201310405
201313249
21288872
21382208
21385265
Z00014042
Z00191031
MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.
ATTN: CHANTAL/LINDA
** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **
TOTAL 2 BDLS G.W. 874 LBS
ITEMS (1-9) BDL
ITEM (10) BDL
*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
                   *** 9:00 AM TO 4:00 PM
CONCORD, ONT.*
**** TEL. 800-926-2600 ****
***********
         WE STOCK STAINLESS STEEL
    PLEASE LET US QUOTE YOUR NEXT REQUIREMENT
*************
***PLEASE NOTE A $25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER. ***
    Page: 3 .... Last
```

TOUTES ERREURS ETVOU MARCHANDISES MANGUANTES DOMENT ETRE RAPPORTEES IMMEDIATEMENT ERRORS OR SHOPTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE WARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

DATE

La chilada de la colonia de la

Composition Matrix Composition Matrix Composition Matrix M	CRESSONA, PA CRESSONA, PA (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7929-0187 Nayo Pariresions Inc., n Subsidiary of Sepa AB (7930 ATTN: ACCOUNT PAXABLE CONCORD, ON - LAK-SCS Sulp 7 to Cassumer THYSSER/KRUPP MATERIALS NA INC 2221 LANGSTAFE ROAD CONCORD, ON - LAK-SCS Sulp 7 to Cassumer THYSSER/KRUPP MATERIALS NA INC 2221 LANGSTAFE ROAD CONCORD, ON - LAK-SCS Sulp 7 to CassumerParire Na. CONCORD, ON - LAK-SCS Applicable Specifications, Revisions, Revisions, and Lac Sepa Sepa Sepa Sepa Sepa Sepa Sepa Sepa	THYSSENKRUPP MATERIALS NA PO/Rel 20531 PO/Rel 20531 PO/Rel 20531 We carify that this is a true copy of the report furnished by the producer of the metal, or data 275" x 1.00" X 144.0000" PART NO. PART NO.
Value Valu	Sales Order Number Lines (No. d. 100600218) Lines (No. d. 10060021) Lines (No. d. 100600218) Lines (No. d. 100600218) Lines (No. d. 10060021) Lines	Certificate of Mill Test Results approved labs. Certificate of Mill Test Results BL PEC-832058-001 1610113 Pg 1/2

Doc No. 158693 Indexed 10May13 by sissup1	Sapa industrial Extrusion Sapa industrial Extrusion Sapa industrial Extrusion Sapa industrial Extrusion CRESSONA, PA 17929-0187 The CRESSONA, PA 17929-0187 The CRESSONA	THYSSENKRUPP MATERIALS NA DART AEROSPACE ALUMINUM FLAT BAR 8061-76511 .375" x 1.00" X 144.0000" part No.
	Certified Inspection Report	PO/Rel 20531 We certify that this is a true copy of the report familished by the producer of the metal, or data resulting from tests made in approved labs.
	Cert Number Page 2 of 2 SAPATSONA Page 2 of 2 R4.4 O7-MAY-13 D7-MAY-13 10.3 D7-MAY-13 D7-MAY-13 D7-MAY-13 D7-MAY-13	Certificate of Will Test Results BLPEC 832058-001 16Juli3 Signed by: Pg 2/2
		Results 1670113 Pg 2/2

Quantifies per Lot / Parhages

PO/Rel 20531

We certify that this is a true copy of the report firmlished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-832058-002

16Jul13 Pg 1/3

Sapa Extrusions Inc., a Subsidiary of Sopa AB Sopa Industrial fixmusina statuta of the statuta of CRESSONA, PA 17929-0187

Involce Te Customer ATTN: ACCOUNT PAYABLE 2821 LANGSTAFF ROAD THYSSUNKRUPP MATERIALS NA INC

Ship To Chetomer 2821 LANGSTAFF ROAD CONCORD, ON - L4K-5C6 THYSSENKRUPP MATERIALS NA INC

CONCORD, ON - 1.4K5C6

Certified Insp

Sales Order Number 1100598155

Cert Number SAPA737768 Customer IVO Cart Creation Di	ection Report
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aßad

Page Cert Priot Date

1053

02-MAY-13

	7	, ,		
Սանունկ ձևարթու	Jate Slippod	n Bar	Specification: ANTMB221 REV 12A	
Z3977 LB	02-MAY-13	0.500 TK x 2.500 W	AMS-QQ-A-2008 RHV 1997	
B/L	Item No.	144,000 IN LN	UNS#A9604 REY	
424721	C03361828	WIF 1.47 F 04 CS 2.5		
Delivery Id	Item No. Rev	Marking CONTINUOUS;		
4422021	1			
CHRISTOPPEAR NO.		!	1 1 1	i
SX2.5				
Applicable Specifications, Revisions and Exceptions	nd Execptions			
COMPOSITION NOTE: The values for 'Others Fach' and 'Others Total' have met the limits as shown on	es for 'Orhers Rach' and 'Olber	8 Total' have met the limits as	shown on	
this certified inspection report. Remainder is Aluminum.	ntzinder is Aluminum.			

स्ट्राजीक्षर विद्वार

We hereby certify that, notes otherwise indicated, the material neveract by this report has been manufactured, interested, and reason in excendence with a guid has been found to meet, the applicable reportants teaming to the including any specifications forming a part of the description and link samples representative of the material meet the composition and but the inculational properties shown on the face of this certification. Also, note that encoursy is not a normal contaminant in business and norther in one easy of its expensional are used in the materiacture of our product. This certification is not to reproduce d in partial form without prior written approval of our Quality Assurance Dept.

Signalure And Title

William Martin III Toch/Quality Manager William To

02-MAY-13

G12-PG3183570 21397829 21391318 21391318 21391318 Opensity School Street z 7 8 ធ្លី ធ្លី ប្ត \$000,000 Annual Property 1713 705 Single State of the 70 535 8 989 530 195

Composition Liwits

G12-PKG1934198 G12-PKG1928672 G12-PKG1928672 G12-PKG1928652

Doc No. 158645 Indexed 9May 13 by sissup 1

Certificate of Mill Test Results

BL PEC-832058-002

THYSSENKRUPP MATERIALS NA ALUMINUM FLAT BAR 6061-T6511 .50" x 2.50" X 144.0000" PART NO. Doc No. 158645 Indexed May 13 by sissup1 Spa Indistini Extrasions
Spa Indistini Extrasions
Spa Indistini Extrasions
Spa Indistini Extrasions LL Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Movimum Lend per Rotts, with the exception of 6262 alloy field strength has been determined by the 0.2% offset method Cart Notes icked in the USA or Other Qualified Countries as Defined by DFARS 125.872.1 educis manshemend with a T6511 temper also meet 16 temper requirements Recordance with EN 10204 Inspection Certificate Type 3.1 CRESSONA, PA 17929-0187 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 19 CRS-1 Š We certify that this is a kne copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. **Certified Inspection Report** Sales Order Number 1100598155 178-1. S Line No. EL 4U-Ling PEC-247872-4 Customer 190 FCT Signed by: SAPA757768 Cert Crestion Date 112-MAY-13 Cert Number Page 3 of Cert Print Date Pego 02-MAY-13

Certificate of Mill Test Results

PO/Rel 20531

BL PEC-832058-002

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511 .506" X 10.00" X 144.0000" PART NO. PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. Certificate of Mill Test Results

BL PEC-832058-003 16Ju

Pg 1/1



FABRICATED PRODUCTS

A Gui

CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE

CUSTOMER PO NUMB	ER:	CUSTOMER PART NUMBE	t: PRODU	JCT DESCRIPTION	N:	
PEC-249933-2		W60/\$TK	.500	X 10.000 PR	ECISION WID	E BAR
KAISER ORDER NUME	ER: LINE ITEM:	SHIP DATE:	KAISEI	LOT NUMBER:	ALLOY:	TEMPER:
647403	002	07/05/20	3 Z001	91031	6061	T6511
WEIGHT SHIPPED	QUANTITY:	B/L NUMBER	DIAM/D	AF/THKNS:	WIDTH:	LENGTH:
1692,000 LB	24.000 P	CS 606590				12.000 FT
SHIP TO.			SOLD	TO:		
THYSSENKRUE	P MATERIA	IRNA	THYS	SENKRUP	MATERIALS	NA

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	uts (KSI)	YTS (KSI)	elongs	HARI	NESS	CONDUCT.	BEND
200191031	0001.	1	47.8	43.7	13.5	RE	94	N/A	N/A
200191031	0001	2	46.5	42.7	13.2	RE	94	N/A	N/A

Chemical Composition (wt%),:Aluminum Remainder

Limits	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot	
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	AИ	NV	0.05	0.15	
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	AM	NA	0.00	0.00	
102765	.72	.23	.24	.09	. 94	.09	.C4	.02	.00	.00	.00	.01	.03	

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II hms-QQ-A-200/8 97(R07) UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALCHINUM ALLOYS. NEITHER MERCURY NOR ANY OF 1TS COMPOUNDS ARE UTILITZED BY KAISER ALOMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Pabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warrancy is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager

Flant Serial: 00096637

Kaiser Order Number: 647493

Line Item: 332

Page 1 of 1

Doc No. 162986 Indexed 10Jul13 by slssup1

ALUMINUM FLAT BAR 6061-T6511 750" x 1.00" X 144.0000" DART AEROSPACE THYSSENKRUPP MATERIALS NA

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Will Test Results

BL PEC-832058-004

Pg 1/1 16Jul13

DIL TIB

MANIFEST NUMBER

DIE MUMBER

DATE OF SHIPHERT

CERTIFICATION

2

ASTM-B221-12a StencilCont

4/30/2013

RB0111

188759

ThyssenKrupp Materials NA

SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS OUR ORDER NUMBER 175012

ThyssenKrupp Materials NA, Toronto Quantity Certifled 1,143 lbs 108pcs CUSTOMER PART NUMBER сизтомен Ро РЕС-247920 RB0111 SCRB .750x1.000 DESCRIPTION ALLOY ! TEMPER 6061-T6511 SALESPERSON David Schroeder AMS-QQA-200/8 - 1997 SPECIFICATION

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the SCM extrusions are menufactured in the USA description, and that samples representative of the material met the composition limits and had the mechanical properties shown

Mecnanicai Properties

Lot-No.

N

201308349

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

lest Date 53.00 Ultimate Tensile min Strength (KSI) max 54.00 min 49.80 Yield Strength KSI тах 51,00 12,85 3 Elongation Percent 14.45

Chemical Composition for Aluminum Alloy 6061

111823 Cast Number Alloy 6061 0.76 <u>(0)</u> 0.35 9 0.32 5 0.09K No. 0.90 0.09 ļΩ 0.07 S 0.02 97.40 1 Each 0,05 Others Total 0.15 United States of America Melt Source:

Calvin J. Winnins Director of Quality & Technical Services

Print Date: 4/30/2013

Bex 923/1: WS

Doc No. 158123 Indexed 3May13 by slssup1

DART AEROSPACE THYSSENKRUPP MATERIALS NA

ALUMINUM FLAT BAR 6061-T6511 750" X 1.50" X 144.0000"

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-832058-005

Pg 1/1 16Jul13



SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

No.

თ

176913

Aitn: Signed by:

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that semples representative of the material met the composition finits and had the mechanical properties shown. BILL TO 01 dins SCM extrusions are manufactured in the USA ThyssenKrupp Materials NA ThyssenKrupp Materials NA, Toronto Quantily Certified 1,143 lbs 72pcs CUSTOMER PART NUMBER MANIFEST NUMBER **CUSTOMER PO** PEC-248562 191112 RB0113 ALLOY/TEMPER 6061-T6511 DIE NUSIBER SCRB .750x1.500 RB0113 . DATE OF SHIPMENT David Schroeder 5/23/2013 Items produced and certified as 6061-76511 also meet the requirements of 6061-76 AMS-QQA-200/8 - 1997 ASTM-B221-12a StencilCont CERTIFICATION

Chemical Composition for Aluminum Alloy 6061 051231 mechanical Properues Cast Number 201310406 Lot-No. Alloy 6061 0.77 0 0.35 e 0.30 5 Š 0.10 Ma 0.87 0.10 S est Date 5/22/13 0,05 Ľ 0.02 51.90 Strength (KSI) min itimate Tensile 1 97.44 Each max 0.05 Others Total min 47.00 0.15 rield Strength (KSI) max 50.00 United States of America Melt Source: 13.20 min Elongation Percent max 14.35

Doc No. 160163 Indexed 29May 13 by sissupi

Calvin J. Winning Director of Quality & Technical Services

ANTINO PERSONAL PROPERTY.

Print Date: 5/23/2013

ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" PART NO. DART AEROSPACE THYSSENIKRUPP MATERIALS NA

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

CERTIFIED INSPECTION REPORT AND TEST RESULTS

FOR EXTRUDED PRODUCTS

Certificate of Will Test Results

BL PEC-832058-006



SERVICE CENTER METALS 5850 Quality Way

Prince George, VA 23875

CÚSTOJNER PO MANIFEST NUMBER 194603

OIL TAB SHIPTO

ThyssenKrupp Materials NA

ThyssenKrupp Materials NA, Toronto

Quantity Certified 1,140 lbs

20 pcs

CUSTOMER PART NUMBER

MRB1795

MQRB 1,000x4,000

PEC-249581

DIE NUMBER MRB1795

ALLOY/TEMPER 6061-T6511 DATE OF SHIPMENT 6/28/2013

David Schroeder

SPECIFICATION ASTM-B221-12a StencilCont

CERTIFICATION

STAWOR NEGOSO SIND

179742

AMS-QQA-200/8 - 1997

Items produced and certified as 6061-76511 also meet the requirements of 6061-76

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herely, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

SCM extrusions are manufactured in the USA

mechanical Properties

Tests

Lot No.

Q)

201313249

		•
6/26/13		: i
46.20	: min	Strength (KSI)
54.90	max	(KSI)
43.50	Dia.	(KSI)
51.40	max	ļ-
11.85	min	Elon
16.10	max	Elongation

jest Date

Ultimate Tensile

Tield Strength

ercen

Chemical Composition for Aluminum Alloy 6061

0513087 0413201 0413184 Cast Number Alloy 6061 5051 6061 0.67 0.70 0.67 <u>ivi</u> 0.30 0.30 6 S 0.32 0.31 Mn 0.09 0.09 Ma 0.87 0.84 0.09 0.08 P 0.05 Z 0.07 0.02 ものよう 97.62 97.56 97.65 2 Each 0.05 Others Total 0.15 0.15 Print Date: 6/28/2013 United States of America United States of America United States of America Melt Source:

Calvin L Mindins Director of Quality & Technical Services 580 07811 - Unit

Doc No. 162642 Indexed 5Jull3 by sissup1

ALUMINUM FLAT BAR 6061.76511 1.00" x 6.00" X 144.0000" PART NO. DART AEROSPACE THYSSENKRUPP MATERIALS NA

Certificate of Will Test Results BL PEC-832058-007

Pg 1/1

Signed by:

PO/Rel 20531
We certify that this is a frue copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO ThyssenKrupp Materials NA SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875 MANIFEST NUMBER 189872 PL0130 DATE OF SHIPMENT 5/10/2013 CERTIFICATION ASTM-B221-12a StencilCont 175662

WILL

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revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the machanical properties shown. SCM extrusions are manufactured in the USA. We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

9318

Lot No.

201309168

viechanical Properties

ThyssenKrupp Materials NA, Toronto

Quantity Certified

1,778 lbs

21 pcs

CUSTOMER PART NUMBER

PL0130

PL 1.000x6.000 DESCRIPTION PEC-248148

6061-T6511

David Schroeder

AMS-QQA-200/8 - 1997

CUSTOMER PO

Test Date 5/8/13 49.60 Strength (KSI) Jitimate Tensile max 49.60 min 44,90 rield Strength KS max 44.90 min 14,55 Elongation Percent max 14.55

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Chemical Composition for Aluminum Alloy 6061 Cast Number Alloy 8061 5061 0.70 0.74 S 0.36 0.30F 0.31 0.32 5 0.10 Mn 0.09 8 0.86 0.87 0.11 0.09 P Zn 0.05 0.05 0.08 0.02 0.02 P 97,56 97.42 Each 0.05 Others Total 0.15 United States of America United States of America Melt Source:

Doc No. 158999 Indexed 14May13 by sissup.

Calvin J. Wingins Director of Quality & Technical Secures

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Print Date: 5/10/2013

0413201 0413197

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511 1.50" X 12.00" X 144.0000" PART NO. PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved|labs. Certificate of Mill Test Results

BL PEC-832058-008

16Jul13 Pg 1/1

Signed by:

KAISE R ALUMINUM FABRICATED PRODUCTS

AGW

CERTIFIED TEST REPORT

http://Online.KajserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER FO NUMBER:		CUSTOMER PART NUMBER:	PRODUCT DESCRIPTION	N:	
PEC-249684-3		ALREC01028	1.000 X 12.000 PF	RECISION WID	E BAR
KAISER ORDER NUMBER.	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
646680	003	06/28/2013	200014042	6061	T6511B
WEIGHT SHIPPED:	QUANTITY.	6/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
	6.000 PC	\$ 606564			12.000 FT
SHIP TO:			SOLD TO:		77 1
THYSSENKBLIED'I	AATEDIA!	ONA	TUVOCENIZDUNO		da.

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)		ELONG%	HARI	ONESS	CONDUCT.	BEND
ZCCG14042	0001	1	50.3	46.1	:	15.7	KE	91	N/A	N/A

Chemical Composition (wt%), | Aluminum Remainder

LIMITS	Şi	Fe	Cu	Min	Mg	Cx	Zn	Ti	₽b	Bi	Zr	Ea	Tot	
Maximum Minimum 102610	0.4C	0.00	0.15	Q.00	0.80	3.04	0.00	0.15 0.00 .02	NA	NA NA .CO		0.05		

Applicable Requirements:

PER ASTM-B221-13, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 (1997) UNS# A9606L MEETS ALL SPECIFICATION REQUIREMENTS FOR 6C61-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLCYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITATE BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kalser Aluminum Pabricated Products, LLC hereby certifies that metal stipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kalser's sales acknowledgement forth. Any warranty is limited to that shown on Kalser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager

Plant Serial: C0096203

Kaiser Order Number: 646680

Line Item: 003

Page 1 of 1

DART AEROSPACE ALUMINUM FLAT BAR 6061:T6511 1.50" x 3.00" X 144.0000" THYSSENKRUPP MATERIALS NA

We certify that this is a true copy of the report farmished by the producer of the metal, or data resulting from tests made in approved labs. PO/Rel 20531

> Certificate of Mill Test Results BL PEC-832058-009 16Jul13

SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

MANNEST NUMBER

DIE NUMBER

DATE OF SHIPMENT

CERTIFICATION

OUR ORDER MUNISER 172124

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS Signed by:

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification ravision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the B/LL TO ThyssenKrupp Materials NA, Toronto ThyssenKrupp Materials NA Quantity Certified 1,536 lbs 24 pcs CUSTOMER PART NUMBER CUSTOMER PO PEC-246883 RB0140 185858 SCRB 1.500x3.000 ALLOY / TEMPER 6061-T6511 RB0140 SALESPERSON David Schroeder 4/1/2013 AMS-QQA-200/8 - 1997 .ASTM-B221-12a StencilCont SPECIFICATION

description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties SCM extrusions are manufactured in the USA. Tests 201303343 Lot No. iest Date 2/20/13 49.10 Ulumate Tensile Ξ. Strength (KSI) max 50.40 min 47.90 rield Strengtr KSI max 48.20 min 15.15 Elongation Percent max 15.40

Chemical Composition for Aluminum Alloy 6061 0213088 0213090 Cast Number Alloy 6061 0.73 0.73 Ľ. 0.36 a 5 0.31 0.32 Mn 0.09 0.11 S 0.85 0.91 Calvin J. Wiggins, Director of Quality & Technical Services 0.11 0.09 P 0.05 8 Z 0.02 P 97,39 97,49 Each 0.05 Others <u>Total</u> 0,15 0.15 Print Date: 4/1/2013 United States of America United States of America Melt Source:

Doc No. 155965 Indexed 3Apr13 by sissup1

Ray 5/27/13

DART AEROSPACE ALUMINUM SQUARE BAR 6061-T6511 4.50" X 96.0000" THYSSENKRUPP MATERIALS NA

PO/Rel 20531

We certify that this is a frue copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results BL PEC-832058-010 16Jul13 Pg 1/2

Signed by:

Salas Industrial Extrasions

3 POTTSVII J. F. STREET CRESSONA, PA 17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa A.B

Ільфев То Симиранг THYSSENKRUPP MATERIALS NA INC 2821 LANGSTAFF ROAD

Ship To Commer
THYSSENKRUPP MATERIALS NA INC CONCORD ON - L4K-5C6

ATTM: ACCOUNT PAYABLE

CONCORD, ON - L4K5C6

2821 LANGSTAFF ROAD

Certified Inspection Report

1100602244 Sales Order Number

Line No.

FEC-248106-002 Customer P/O 02-MAY 13 SAPA757893 Cert Number Cert Crestiun Date 02-MAY-13 1380 affin Cert Print Date

1 of 2

Juantity Shipped		Date Shipped	Men Description	Specification	
150	LB	01-MAY-13	Extraded ACC-U-BAR	ASTMBZZ) RHY (2A IS-AUB REV	
J.		Stem No.	1.500 TK x 4.500 W	AMS-QQ-A-2008 REV 1997 Meets 6061-T65! H, 6861-18611 KHY	
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is certified inspecte	an report. Re	is ostified inspection report. Remainder is Alumioum,			

rgal Statement

We incusty certify that, indees otherwise indicated, the mmerial content by this report has been consultanted, inspected, and test been found to meet, the applicable requirements obscribed therein, holloting any specifications forming a part of the description and that sumplex representative of the meaterial ment the conjugation, and bad the machanical properties shown on the face of this certification. Also, note that mercusty is not a serial contaminant in aluminum alloys and neither in our many of its compounds are used in the manufacture of more product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assumece Dept.

William Martin III

1)2-WAY-13

Tech/Quality Manager

S. S. Halle

witius Limits

G12-PKG[921012

Lot 1

Lot Number 1982

Quantities per Lut / Puckages Package Number

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Doc No. 158348 Indexed 7May13 by sissup1

Doc No. 158348 Indexe	\ <u>E</u>		TINGS.	THYSSENKRUPI DART AEROSPACE ALUMINUM SQUARB BAR 6061-T6511 4.50 X 96.0000 PART NO.
Indexed 7Miy13 by sissup1	Card Natus Cradition mensined with a T8511 temper also meet 16 temper requirements. Violet strongth has been determined by the 0.2% office incided All Mill Bright. Allays produced at Steps Featrusians energity with 0.4% Appeiment Lend per StallS, with the exception of 6362 allay In attribute with EN 118/194 125pectan Certificate Type 3.1 Fielled in the USA or Other Qualified Consider at Octacol by DPA/SS 225, 172.1 Name in USA	Composition Results	* Sapa Industrial Extrusions * Saport Synlls Street CRESSONA, PA 17929-1187 * CRESSONA, PA 17929-1187 * Cressions CRESSONA, PA 17929-1187 * One of the base of the ba	PO/Rel 20531 PO/Rel 20531 We cardify that this is a true copy of the report familished by the producer of the nebil, or data resulting from tests made in approved labs.
				Certificate of Mill Test Results BLFBC-882058-010 167013 Pg 2/2